

WHAT IS CLAIMED IS:

1. A circular polarized wave reception antenna comprising:
a monopole antenna comprising a pole portion extending in an axial direction and an ground plate for grounding one terminal of said pole portion, said pole portion having a length of $\lambda/4$, where λ represents a resonance wavelength; and
polarization converting means, disposed around said monopole antenna, for converting a circular polarized wave into a linear polarized wave.
2. A circular polarized wave reception antenna as claimed in claim 1, wherein said polarization converting means comprising a plurality of helical leads extending in a helical fashion along said pole portion with apart from said pole portion by a predetermined distance, each of said helical leads having an end grounded in said ground plate.
3. A circular polarized wave reception antenna as claimed in claim 2, wherein said helical leads are equal in number two, said two helical leads are disposed at an angular space of 90 degrees around said pole portion.
4. A circular polarized wave reception antenna as claimed in claim 2, wherein said helical leads are equal in number three or more, said three or more helical leads are disposed at equal angular spaces around said pole portion.
5. A circular polarized wave reception antenna as claimed in claim 2, wherein said resonance wavelength is equal to 128.3mm and said predetermined space is equal to 20mm.
6. A circular polarized wave reception antenna as claimed in claim 2, wherein each helical lead has a length of $\lambda/4$.
7. A circular polarized wave reception antenna as claimed in claim 2, wherein a pitch angle included between said ground plate and each helical lead

8. A circular polarized wave reception antenna as claimed in claim 7, wherein said pitch angle is equal to 40 degrees.

9. A circular polarized wave reception antenna as claimed in claim 2, wherein said polarization converting means comprises a cylindrical body formed by an antenna pattern film which is rolled into a cylindrical shape, said antenna pattern film comprising a flexible insulator film member having one surface on which said helical leads are formed, said pole portion being disposed in a substantial center portion of said cylindrical body.